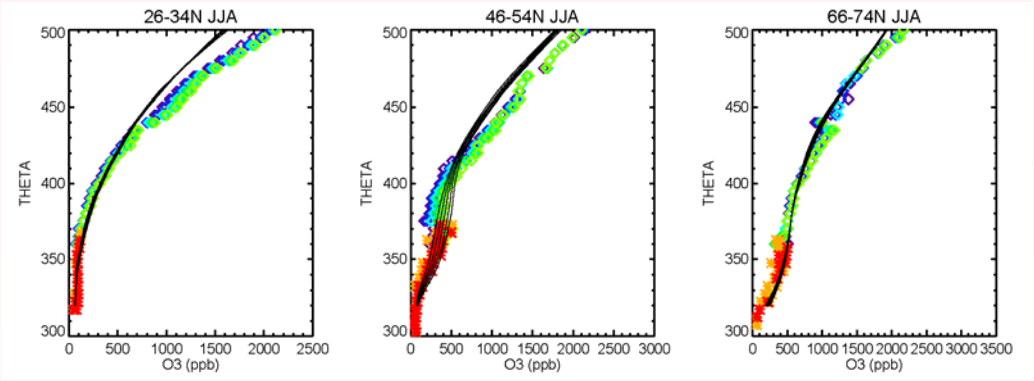
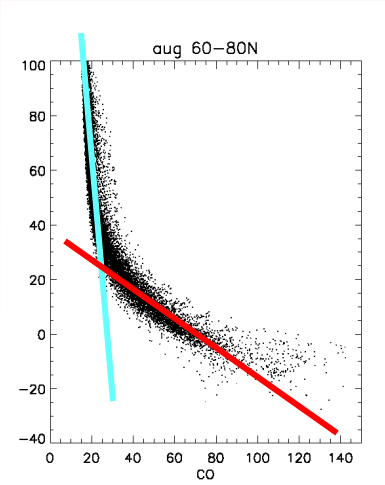
Combo O_3 + Spurt and ER-2 (Aircraft) Summer Profiles

Subtropics **Midlatitudes** **Polar**



This is our best ever summer polar O_3. Summer has the poorest agreement for the midlatitude lower stratosphere. The subtropics are consistently a little low above ~430K. The lowermost stratosphere agreement looks very good everywhere.



Conclusions about the FVGCM-Combo Model:

The region just above the tropopause, where the stratosphere and troposphere interact, has similar physical characteristics in the model and the observations. The thickness of the tropopause mixing region is ~25-30K throughout the extratropics, with no seasonal variation, in very good agreement with Spurt aircraft data.

From Strahan et al., January 11, 2006.